Claims:

1. (Currently Amended) A method comprising:

servicing a Web request from a Web application;

associating a Web request Globally Unique Identifier (Web request GUID)

with the Web request (Web request GUID), wherein events which happen during

servicing of the Web request can be identified by the Web request GUID,

wherein the servicing comprises executing the Web application that runs on or

interfaces with a server that is servicing the Web request;

detecting the occurrence of an event in the servicing of the Web request

during the execution of the Web application;

logging by the server a server entry having a server event GUID in a

server trace log in response to the detecting of the occurrence of the event in

the servicing of the Web request, wherein the server entry comprises:

information descriptive of the occurrence of the event in the

servicing of the Web request;

[[an]] a server event GUID corresponding to the event; and

the Web request GUID corresponding to the Web request;

logging by the Web application an application entry having an application

GUID in an application trace log, wherein each application entry is correlated

with each server entry in the server trace log by a Web request GUID; and

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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determining which of the information that is descriptive of the occurrence

of the event to put into the server entry and/or application entry, or both the

server entry and the application entry, as appropriate, as a function of a

predetermined level of verbosity selected from a plurality of levels of verbosity

for the Web application and server.

2. (Canceled)

3. (Currently Amended) The method as defined in Claim 1, wherein

the server entry is logged in the server trace log during the servicing of the Web

request only when the event is selected from the group consisting of:

the event occurs within the context of a predetermined Universal Resource

Locator (URL);

the event pertains of the functionality of authentication;

the event pertains of the functionality of security;

the event pertains of the functionality of compression;

the event pertains of the functionality of a Common Gateway Interface

(CGI); and

the event pertains of the functionality of one or more filters.

4. (Currently Amended) The method as defined in Claim 1, wherein:

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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the entry is logged in the <u>server</u> trace log during the servicing of the Web

request only when the event pertains to a predetermined filter; and

the information comprises data going into the predetermined filter and

data coming out of the predetermined filter.

5. (Canceled)

6. (Currently Amended) The method as defined in Claim 1, wherein

at least one of the detecting and the logging are performed by one or more

components of [[the]] an operating system of a server, wherein a kernel trace

session component of the operating system of the server performs event

buffering to detect an event when traces are processed by a kernel when the

operating system processes a part of the Web request.

7. (Currently Amended) The method as defined in Claim 6, wherein:

the server services the Web request from the Web application;

the operating system of the server comprises one or more Application

Program Interfaces (APIs);

the Web application is executed by, or interfaces with, the server;

the Web application interfaces with at least one said API to log a Web

application event as a Web application entry in the <u>server</u> trace log;

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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the Web application event occurs within the Web application itself; and the Web application entry comprises:

information descriptive of the occurrence of the Web application event in the servicing of the Web request by the server when the Web application is running on, or interfacing with, the server; and

the GUID corresponding to the Web request.

8. (Currently Amended) The method as defined in Claim 1, wherein:

a server, having an operating system, services the Web request from the Web application; and

at least one of the detecting and the logging are performed by one or more server applications that are executed by the server.

9. (Currently Amended) The method as defined in Claim 8, wherein:

the server services the Web request from the Web application;

the operating system of the server includes one or more APIs;

the Web application is executed by, or interfaces with, the server;

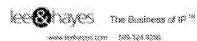
the Web application interfaces with at least one said API to log a Web

application event as a Web application entry in the server trace log;

the Web application event occurs within the Web application itself; and

the Web application entry comprises:

Serial No.: 10/798,819
Atty Docket No.: MS1 -1906US -6Atty/Agent: John C. Meline



information descriptive of the occurrence of the Web application

event in the servicing of the Web request by the server when the Web

application is running on, or interfacing with, the server; and

the GUID corresponding to the Web request.

10. (Currently Amended) The method as defined in Claim 1, wherein

filtering is performed on a URL basis, wherein each predetermined level of

verbosity corresponds to a different number of data types available for use in

logging application entries and server entries, and wherein each data type

corresponds to a different kind of data that is descriptive of the particular event.

11. (Currently Amended) The method as defined in Claim 1, further

comprising generating a report comprising at least a portion of the information in

each said server entry and/or application entry, as appropriate, for which the

Web request or server event GUID in the entry matches a supplied ID, wherein

the amount of information in the report is a function of a predetermined level of

verbosity selected from a plurality of levels of verbosity.

12. (Previously Presented) The method as defined in Claim 11,

wherein:

each said entry is in a binary format; and

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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the generating of the report further comprises using an event GUID corresponding to each said event to map the binary format of each said entry into an event description that is in a format that is human readable.

13. (**Previously Presented**) The method as defined in Claim 1, wherein the Web request GUID or the event GUID is the first portion of the entry.

14. (Currently Amended) The method as defined in Claim 1, wherein the Web request GUID is unique to the Web request with respect to other said Web requests, and wherein the Web request GUID is 128 bit and wherein .

15. (Canceled)

16. (**Currently Amended**) A computer-readable medium having stored thereon computer-executable instructions for performing a method, the method comprising:

associating a <u>Web request</u> Globally Unique Identifier (<u>Web request</u> GUID) with [[the]] <u>a</u> Web request (Web request GUID), wherein events which happen during servicing of the Web request can be identified by the Web request GUID, wherein the servicing comprises executing [[the]] <u>a</u> Web application that runs on

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Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline or interfaces with a server <u>having an operating system and</u> that is servicing the

Web request;

servicing the Web request with a server from a Web application that is

executing on the server, wherein during the servicing multiple logger streams are

simultaneously active to log the events as the Web request is being serviced by

the server;

detecting the occurrence of the events during the servicing of the Web

request by the server;

logging by the server each of the events as server entries in a server trace

log, wherein each server entry comprises:

information descriptive of the occurrence of an event;

an event GUID corresponding to the event; and

the Web request GUID corresponding to the Web request;

logging by the Web application an application entry having an application

GUID in an application trace log, wherein each application entry is correlated

with each server entry in the server trace log by a Web request GUID; and

determining which of the descriptive information to put into the server

entry and/or application entry, or both the server entry and the application entry,

as appropriate, as a function of a predetermined level of verbosity selected from

a plurality of levels of verbosity for the Web application and server.

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US

Atty/Agent: John C. Meline

ECONORS The Susiness of 17 11

-9-

17. (Canceled)

(Currently Amended) The computer-readable medium as defined

in Claim 16, wherein the entry is logged in the <u>server</u> trace log during the

servicing of the Web request by the server only when the event is selected from

the group consisting of:

the event occurs within the context of a predetermined URL;

the event pertains of the functionality of authentication;

the event pertains of the functionality of security;

the event pertains of the functionality of compression;

the event pertains of the functionality of a CGI; and

the event pertains of the functionality of one or more filters.

(Currently Amended) The computer-readable medium as defined

in Claim 16, wherein the entry is logged in the <u>server</u> trace log during the

servicing of the Web request by the server only when the event pertains to a

predetermined filter, wherein the information comprises data going into the

predetermined filter and data coming out of the predetermined filter.

20. (Currently Amended) The computer-readable medium as defined

in Claim 16, wherein the steps method further comprises at least one of:

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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activating the logging when the logging is deactivated; and

deactivating the logging when the logging is activated.

21. (Original) The computer-readable medium as defined in Claim 20,

wherein the activating and the deactivating are performed remotely from the

server.

22. (Currently Amended) The computer-readable medium as defined

in Claim 20, wherein the <u>server</u> trace log is in a remote location from the server.

23. (**Original**) The computer-readable medium as defined in Claim 16,

wherein at least one of the detecting and the logging are performed by one or

more components of an operating system of the server.

24. (Currently Amended) The computer-readable medium as defined

in Claim 23, wherein:

the operating system of the server comprises one or more APIs; and

the Web application interfaces with at least one said API for the logging of

each said Web application event as an entry in the <u>server</u> trace log.

25. (Canceled)

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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26. (**Previously Presented**) The computer-readable medium as defined in Claim 16, wherein:

the operating system of the server comprises one or more APIs; and

the Web application interfaces with at least one said API for the logging of

each said Web application event as an entry in the application trace log.

27. (Currently Amended) The computer-readable medium as defined

in Claim 16, wherein the step of logging of the entry in the server trace log is in

response to the detecting of the occurrence of the event in the servicing of the

Web request.

28. (Previously Presented) The computer-readable medium as

defined in Claim 16, where the method further comprises generating a report

containing at least a portion of the information in each said entry for which the

Web request GUID in the entry matches a supplied ID.

(Previously Presented) The computer-readable medium as 29.

defined in Claim 28, wherein:

each said entry is in a binary format; and

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US

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the generating of the report further comprises using the event GUID to

map the binary format of each said entry into an event description that is in a

format that is human readable.

30. (**Previously Presented**) The computer-readable medium as

defined in Claim 16, wherein the Web request GUID is the first portion of the

entry.

31. (Currently Amended) The computer-readable medium as defined

in Claim 16, wherein the Web request GUID is unique to the Web request with

respect to other said Web requests, and wherein the Web request is for at least

one of: a static file; a Common Gateway Interface (CGI); and an active server

page (ASP).

32. (Currently Amended) A system having a processor for tracing a

Web request on a network, the facility system comprising:

identifying means for identifying when a predetermined event occurs in a

predetermined Web request when the predetermined Web request is being

serviced; and

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US

Atty/Agent: John C. Meline

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a logging means, in communication with the identifying means, for logging

the event in a <u>server</u> trace log as the event happens, wherein the log of the

event in the server trace log comprises:

a GUID corresponding to the predetermined Web request; and

information descriptive of the occurrence of the event when the

predetermined Web request is being serviced, wherein the logging means

is further for determining which of the information that is descriptive of the

occurrence of the event to put into the server entry and/or application

entry, as appropriate, in the server or application trace log as a function of

a predetermined level of verbosity, wherein the level of verbosity is

selected from a plurality of verbosity levels;

a second logging means, in communication with the identifying means, for

logging the event in an application trace log after the event happens, wherein

the logging of the event in the application trace log comprises:

a GUID corresponding to the predetermined Web request; and

information descriptive of the occurrence of the event when the

predetermined Web request is being serviced, wherein the second logging

means is further for determining which of the information to put into the

application entry as a function of a predetermined level of verbosity,

wherein the level is selected from a plurality of verbosity levels; and

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US

Atty/Agent: John C. Meline

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-14-

a correlation means for correlating each application entry with each server

entry in the server trace log by a Web request GUID.

33. (Currently Amended) A network environment comprising a server

having a processor and multiple simultaneously active logger streams that are

concurrently running on the server and that are each trace-enabled, the server

servicing Web requests from a Web application while performing Web request-

based tracing to produce traces in a server trace log that comprise a Web

request GUID for each Web request and to flow each Web request GUID from

the server across to the Web application, wherein the Web application produces

traces in a Web application trace log, wherein the traces in the server trace log

and the Web application trace log comprise information that is descriptive of

events which occur during the servicing of the Web request by the server and

the Web application, wherein the information in the traces is determined in part

as a function of a predetermined level of verbosity, wherein the level is selected

from a plurality of levels of verbosity for the server and the Web application, and

wherein the Web application can correlate each event in the Web application

<u>trace log</u> with a <u>server</u> GUID from the server <u>by a Web request GUID</u>.

34. (Canceled)

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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35. (Previously Presented) The network environment as defined in

Claim 33, wherein the server returns each said trace from the multiple logger

streams to a corresponding said trace-enabled Web application for which the

Web request was serviced by the server.

36. (Currently Amended) A server module operating on a server, the

server module comprising:

logic stored in a memory configured to service a Web request from a Web

application operating on the server;

logic configured to detect an occurrence of an event in the servicing of the

Web request; and

logic configured to log [[an]] a server entry in a server trace log, wherein

the entry comprises:

information descriptive of the occurrence of the event of the

servicing of the Web request; and

a Web request Globally Unique Identifier (Web request GUID)

corresponding to the Web request (Web request GUID), wherein the Web

request GUID is associated with the Web request, so that events which

happen during servicing of the Web request can be identified by the Web

request GUID which is logged with each of the events;

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US

Atty/Agent: John C. Meline

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logic configured to log an application entry in an application trace log,

wherein the entry comprises:

information descriptive of the occurrence of the event of the

servicing of the Web request; and

a Web request GUID corresponding to the Web request; and

logic configured to determine which of the information descriptive of the

occurrence of the event to put into the entry as a function of a predetermined

level of verbosity, wherein the verbosity is determined by selecting one of a

plurality of discrete indices, the indices corresponding to human-readable labels,

wherein the descriptive information of the event comprises an event GUID and

human readable text, and wherein event GUIDs may be correlated with Web

request GUIDs.

37. (Canceled)

38. (Previously Presented) The server module as defined in Claim 36,

further comprising logic configured to limit the entries in the trace log that

correspond to a predetermined said event that is selected from the group

consisting of:

the event occurs within the context of a predetermined URL;

the event pertains of the functionality of authentication;

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline

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the event pertains of the functionality of security;

the event pertains of the functionality of compression;

the event pertains of the functionality of a CGI; and

the event pertains of the functionality of one or more filters.

39. (Original) The server module as defined in Claim 36, wherein:

the entry is logged in the trace log during the servicing of the Web request

only when the event pertains to a predetermined filter; and

the information includes data going into the predetermined filter and data

coming out of the predetermined filter.

40. (Canceled)

Serial No.: 10/798,819 Atty Docket No.: MS1 -1906US Atty/Agent: John C. Meline ECCIONS The Business of F